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MISSOURI ARCHITECT

JULY

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OF
ARCHITECTS

JUL 17 1964

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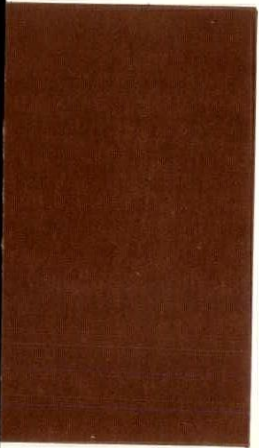
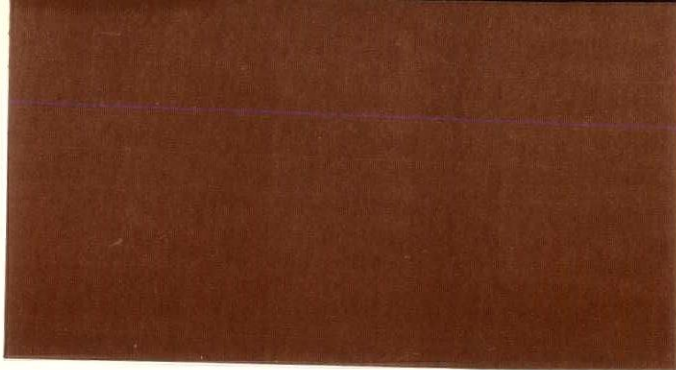
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M A R A

To improve the relations between members of the architectural profession and the general public through a program of education and cooperation.





To encourage the active participation of architects in civic affairs generally, to the end that the general public may become better acquainted with and more fully appreciate the contributions of the architectural profession toward the peace, health, culture and security of society, and to the end that all Missouri architects may become more keenly conscious of their obligations to the public, and their duty as members of the profession, and as citizens, to contribute their full share toward the preservation of the peace, health and safety of the citizens of this State.

To encourage its members, by both precept and example, to obey the laws of the State of Missouri, requiring and providing for the registration of architects, and to assemble and disseminate such information through the State of Missouri, as will tend to induce the public generally to obey said laws.



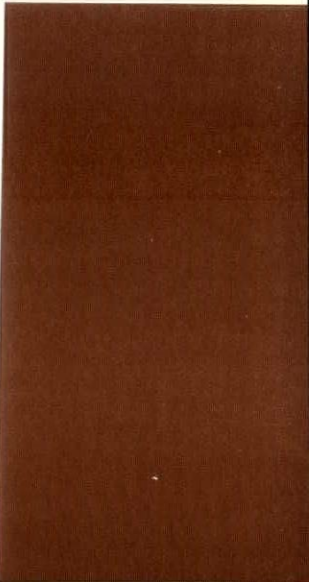

The most interesting-not necessarily the ablest-pupils I ever had, came to the University not direct from school, but after a period in the army or business or some other practical pursuit. Unlike the great majority of undergraduates who study history and literature, and even politics and ethics, when they know hardly anything of the subjects with which they deal - human nature and life - these other students had seen something of both and were better prepared to think about them.

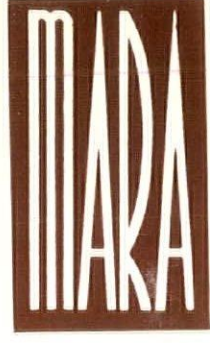
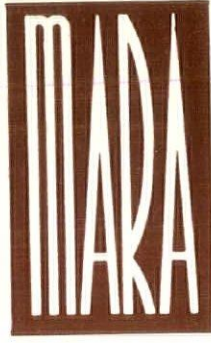
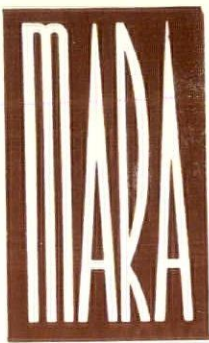
- Sir Richard Livingstone



The big masses or units must be laid out first. These are then divided into smaller parts and subdivided into still smaller portions. Finally come the details.

Frederic Whitaker





PRESIDENT'S COMMENT

Our conference in Springfield last May was the greatest and most convivial our ASSOCIATION has held. The well planned program and hospitable atmosphere was enjoyed by all.

It was a pleasure to be elected President for the coming year. M.A.R.A. is becoming an increasingly more active organization and vital to architectural profession with a record membership of 620 architects.

I intend to make a real effort to continue the many fine programs and activities the ASSOCIATION has engaged in. M.A.R.A. should continue to lead the architectural profession in Missouri. In addition to our interest in legislation, I am sure our members with their education and experience are vitally concerned with the natural beauty and physical constructions in our State.

In recent years M.A.R.A. has shown a significant interest in conservation of Missouri's natural beauty, relation of the architecture with other arts and sciences. We are also much interested in community planning.

We are in a period of great activity in the growth of our cities and rural areas. The completion of the Great Saarinen Arch in St. Louis will take place in 1965 along with many more important architectural accomplishments.

We enjoyed the drive from Springfield back to St. Louis. The modern divided highway permits an easy drive and enough time to appreciate the natural beauty Missouri was endowed with. This is particularly true during the month of May. We were intrigued with some of the weathered barns and rural structures as subjects for paintings. In spite of their simplicity and ruggedness they seem to belong and relate to the natural landscape. In stark contrast are the frequent automobile graveyards.

CONTINUED ON PAGE 3

This is a vital physical problem. It seems like a race between automobile junkyards, billboards and trees. THE TREES ARE LOSING. M.A.R.A. hopes to play a more active role in community planning and conservation of Missouri's beauty.

The next ARCHITECTS DAY CONVENTION will be held in St. Louis in 1965. We hope to have an interesting program and activities for everyone to enjoy. The challenge to duplicate or improve on the Springfield convention is a real one. Almost one half of our membership is concentrated in the St. Louis area.

This spring was a most busy year for the Missouri Architects. Just after our Springfield Convention, activities at the A.I.A. National Convention in St. Louis were most enjoyed. The theme of this year's professional program "The City Visible and Invisible" was presented throughout the convention with many and frequent aspects of the topic.

The awareness of the problems in developing our physical surroundings is becoming more evident. This is true of the Local, State, and National areas. The newly elected A.I.A. President, Arthur Odell of Charlotte, North Carolina, called for more teamwork as a force in the development of beautiful communities. His comment that there is one architect for every 10,000 people in the United States is most pointed; my own city of Sunset Hills, one of the largest in area and most beautiful municipalities left in the St. Louis area, has one architect for about every 500 residents. In spite of this apparently high ratio, our community is being converted to an architectural blight in a relatively short time. A major portion of its natural beauty has been dynamited away for major highways, dividing it into separate areas. The forces opposing the development of beautiful communities with professional leadership are not simply or easily reckoned with. Billboards, filling stations, overhead wires, speeding traffic — architectural monstrosities — are all part of the everyday scene.

It is a most happy development to learn that 6 of the 59 new fellows on the American Institute of Architects in 1964 are members of M.A.R.A. Missouri is indeed the Show-Them State.

April 29, 1964

Mr. Richard P. Stahl, A.I.A., President
Missouri Association of Registered Architects
Kentwood Arms Hotel
Springfield, Missouri

Dear President Stahl,

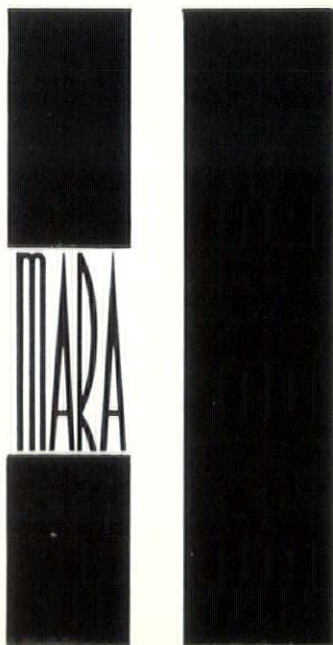
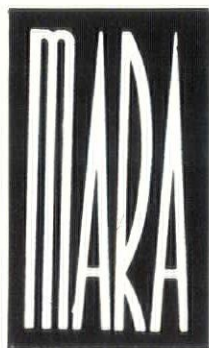
Your convention of registered architects of Missouri is of the utmost importance to me. It represents the finest in the field of professional stature and epitomizes some of the outstanding talent our State has to offer. Let me congratulate you on such a fine assembly of men and extend my very best wishes for the success of your convention. Please be assured of my sincere interest in your work. Any recommendations which may result from this convention will be given my specific attention.

I sincerely regret that I cannot be with you in person. Again, please accept my best wishes.

Respectfully,

Lt. Gov. Hilary A. Bush
Acting Governor of Missouri

**MISSOURI ASSOCIATION
OF
REGISTERED ARCHITECTS
ARCHITECTS' DAY, 1964
SPRINGFIELD, MISSOURI**



program was very well planned. The hotel accommodations for all parts were exceptional, and the Springfield architects were very fine hosts. The attendance was the largest at any Architects' Day. The whole weekend was tremendous.

On Friday, May 1, there was a special preview of "Watercolor U.S.A." at the Springfield Art Museum which everyone enjoyed immensely. This is probably the second major watercolor show in the United States. The wide range of work was most excellent. On Friday evening, the President's Reception was held at the Riverside Inn - a very informal and delightful dining place located on the bank of a beautiful Ozark stream. Cocktails were served by the Carthage Marble Corporation, virtually on the banks of the stream.

Saturday morning, the annual business meeting was held, and the numerous committee reports pointed up the great amount of work that had gone on during the past year. The organization has continued to grow and prosper, is in a sound financial position and has a capable Executive Director in Mr. Paul N. Doll. Architect Fay Jones and Educator Edgar Albin presented genuine and inspiring comment and visual work. The panel discussions were imaginative. Moderator Lou Geis lead the panel to easy flowing comments. Mr. Ralph Burgard, executive Director of the St. Paul Council of Arts and Sciences, St. Paul, Minnesota, was an excellent panel member and he was very entertaining as the principal speaker at the annual banquet in the evening.

The Producers' Council had a very interesting display, which was grouped around one of the swimming pools during the two days. It was one of the most pleasant exhibits of this type seen by the architects.

The ladies' activities consisted of a delightful reception on Friday at Mr. and Mrs. Stahl's residence, and a watercolor painting demonstration on Saturday afternoon.

The Springfield weatherman co-operated by providing great weather for all the outdoor activities, however Dick Stahl maintained the weather was always ideal in Springfield. On Sunday, the Springfield architects made their personal boats available to all guests on Table Rock Lake.

OFFICERS AND DIRECTORS OF MAKRA 1964 - 1965

Front Row left to right: Paul Doll executive director, Dick Stahl director, Louis Geis director, Max Sandford vice-president, E.J. Thias president, Ed Waters secretary, Roy Palardy director

Second Row left to right: Bill Conrad director, Dave Pearce director, Dick Nichols director, K. O. Brown director, Walter Kromm director, Don Buller treasurer.



E. J. THIAS assuming the duties of president from DICK STAHL at the Banquet Meeting. The attendance at the convention was the largest ever.



PROFESSOR EDGAR ALBIN, Head of the Department of Art at Southwest Missouri State College, giving his most articulate talk at the luncheon meeting. His slides and discussion on his travel in India engrossed the audience.



DICK STAHL congratulating Architect FAY JONES after his delightful and informative presentation of examples of his unusual work in Arkansas. MR. JONES has designed many beautiful residences in the Ozarks.



Three lovely ladies enjoying the convention are from left to right BETTY BROWN, DORIS THIAS and BARBARA PEARCE. Many activities were planned for the ladies who had a most pleasant time.



Dick Stahl, Lou Geis and Ed Thias enjoying some pleasant comment.
JULY, 1964

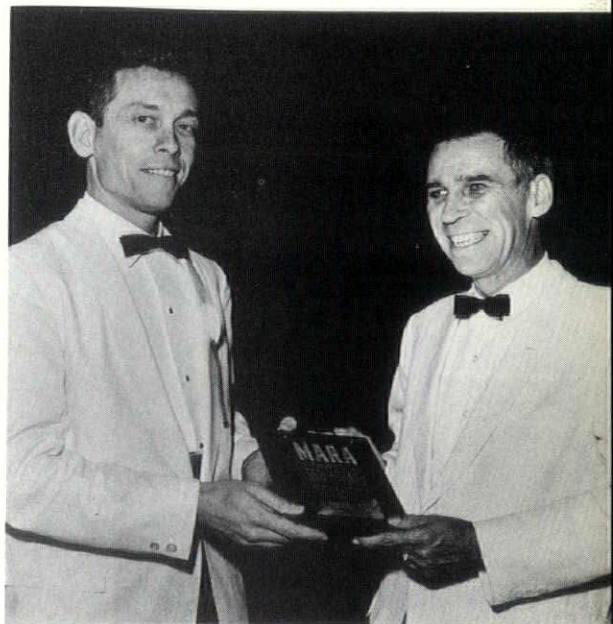
Festive buffet dinner at Riverside Inn was greatly enjoyed by 189 architects, their wives and guests. The friendly gathering recognized and honored the past presidents of MARA.





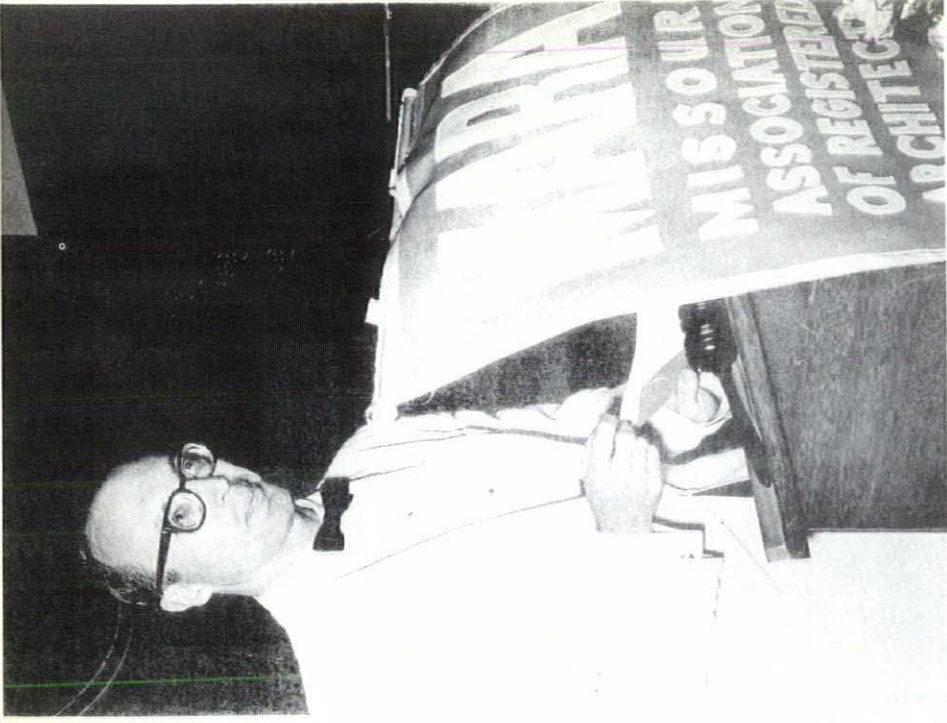
Past President Stahl and members of the panel on Community Responsibility enjoying informal discussion at Saturday afternoon session. Left to right: George Kassabaum, Dick Stahl, Louis Geis and Fay Jones.

Dave Pearce presenting the MARA plaque to Dick Stahl for his outstanding leadership during 1963-64





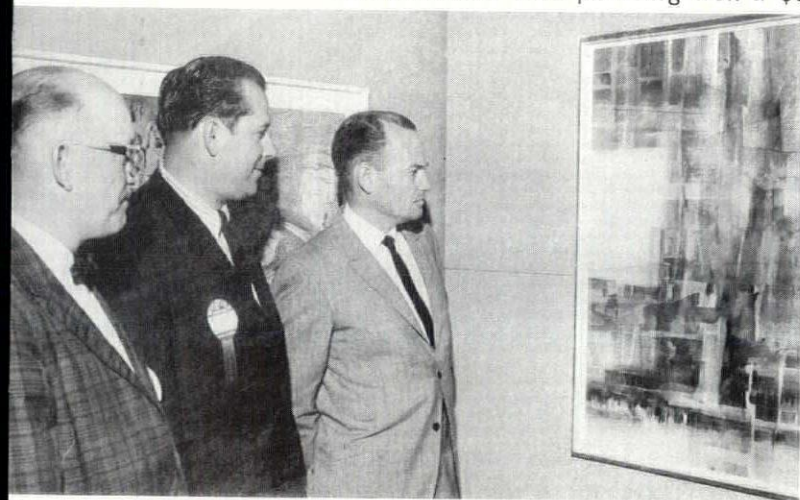
Robert Pearce of St. Louis and other guests enjoying the Friday night buffet at Riverside inn.



Guest speaker Ralph Burgard, Executive Secretary of the Saint Paul Council of Arts and Sciences, who delivered a most entertaining and delightful talk during the Saturday night Banquet. Mr. Burgard was also a member of the council held during the afternoon



Roy Pallerdy and two ladies viewing Alan Chiara's beautiful watercolor entitled "Spring Thaw", at the Springfield Art Museum. This painting won a \$300.00 award.



Max Sandford, Ed Thias and Ed Waters admiring Doris White's impressionistic painting entitled "Edge of Winter" which won a \$500.00 award.



One of the highlights of the Springfield Convention, the best attended and most enjoyed convention of the Association, was Saturday evening's Banquet. Shown here seated at the Headtable are left to right, Paul Doll, executive director; Mrs. and Rev. George A. Wilson; Mrs. and Mr. Dick Stahl.

PROPOSED

LEGISLATION

The Legislation Committee for 1963 proposed four bills which were approved and introduced by M.A.R.A. into the 1963 General Assembly. In addition, M.A.R.A. endorsed Senate Bill No. 108 relating to professional corporations and prohibiting certain activities.

Bills recommended by M.A.R.A. were not passed by the 72nd Assembly. It is the consensus of this Committee that these bills be reintroduced in the 73rd General Assembly in 1965. They are:

1. House Bill No. 560, relating to members of city legislative bodies and zoning commissions, and prohibiting their participation in the determination of changes in regulations, restrictions, and boundaries of zoning districts when personally interested in land located in such districts.
2. House Bill No. 561, to repeal Section 327.160, RSMo 1959, relating to the experience required by members of the State Board of Architects and Professional Engineers, and to enact in lieu thereof one new action relating to the same subject.
3. House Bill No. 651, relating to the qualifications for registration as an architect under the provisions of Chapter 327, RSMo, or as

may be otherwise provided by law; authorizing registration without proof of graduation in case of applications filed on or prior to June 30, 1970, and requiring proof of graduation, the holding of the degree of Bachelor of Architecture, and three years architectural experience as a prerequisite to registration in case of applications filed after June 30, 1970.



4. House Bill No. 686, relating to lien waivers by architects for architectural fees.

In addition to these four bills, the Committee has received approval of the Officers and Directors of M.A.R.A. for the introduction of the following three additional bills:

1. ARCHITECTURAL REGISTRATION EXPERIENCE

Requirement that all architects in training obtain their experience as active architectural training with an architect, - and not in some related field such as contracting.

2. ARCHITECTS' LIABILITY

Statute of Limitations of architects' liability.

3. PROFESSIONAL PRACTICE

Elimination of the corporation provisions of the registration law which apparently allows persons who are not architects to practice architecture. The title of all architectural firms shall require names of natural persons who are registered architects.

The Committee welcomes comments towards improvement of legislation concerning the architectural profession, and further feels that a continued effort should be made towards adequate State Legislation.

CIRCULATION
2700

"PLAGIARISM OF DESIGN"

Architects and engineers have legal precedent to draw upon against unauthorized use of their plans and specifications. This was established in a California case when the jury awarded \$50,000 damages to Bent H. Carden, a structural engineer whose uncopyrighted building plans and specifications for an apartment house were copied without authorization.

The case of Carden versus Stern et al. was tried in Los Angeles in the Superior Court of the State of California. The jury's verdict indicates public recognition of the need for protection from plagiarism of a creative work and therefore constitutes a tremendous victory for the design professions.

"It takes one helluva critic to outlast an artist who is capable of producing. Critics usually don't stay at one job very long. They're always coming and going."
— Thomas Hart Benton

"One of my favorite anecdotes was about a soldier on guard duty in the front lines one night, for the first time. He heard a strange noise, fired at it, and then called out, 'Who went there?'"
— Ernie Pyle

"Good teaching requires hard work. Careful planning, breadth of knowledge, constant alertness to new developments, a genuine liking for people, an ability to create opportunities for learning skillful presentation -- all are essential."
— Doctor Ernest Brandenburg

"As a matter of fact, I feel I belong all over my state. There is about the Missouri landscape something intimate and known to me. While I drive around the curve of a country road, I seem to know what is going to be there, what the creek beds and the sycamores and walnuts lining them will look like, and what the color of the bluffs will be."
— Thomas Hart Benton

"I will build a motor car for the great multitude . . . so low in price that no man . . . will be unable to own one — and enjoy with his family the blessing of hours of pleasure in God's great open spaces."
— Henry Ford

ARCHITECTURAL EDUCATION

The MARA OFFICERS AND BOARD would like more comment from the members on some of the important considerations of the profession.

STATE ARCHITECTURAL SCHOOL

Much work has been executed in the direction of creating another architectural school in the State of Missouri. The need for such a school has been increasingly more apparent with the increase of construction and the decrease in the number of Missourians who are graduating from Washington University's School of Architecture. It has been suggested that a two year program be started by having the State University establish certain courses that would be acceptable for graduation from other Architectural Schools. By this method it was hoped a limited schedule would lead to more full commitment to an Architectural School. Other comment has suggested the school be located in one of the large cities, so some of the teachers who are practicing architects can be on the staff. St. Louis may be the best location because of the two schools of architecture in Kansas. Missouri University eventually expects 20,000 to 25,000 at the St. Louis campus.

UNIVERSITY EDUCATION

Graduation from a School of Architecture to be a requirement to become licensed in Missouri. Such a Bill requiring an architectural education has been introduced in the General Assembly several times. It has been indicated the architectural profession is lagging behind the medical and legal professions in this regard. The trend in architectural schools is to realize a six year course. This increase in the length of university schooling apparently would penalize the graduate under the present provisions because of the greater time required to obtain a license compared to the non-graduate.

ARCHITECTURAL EXPERIENCE

Apparently acceptance of employment in related fields such as contracting has been approved as architectural experience for a license. The MARA Board has strongly opposed permitting every type of construction work experience to qualify for registration as an architect. The MARA BOARD does not feel professional training can be obtained

outside of the profession. (Missouri Revised Statutes, Section 327.110, paragraph 6) indicates one of the grounds for suspension, revocation or refusal to renew registration is "Engaging in or participating in any profits from any contractual work for which he has been employed as the architect". There are States that require architectural experience to be obtained with architects professionally practicing. The practice of medicine, law and other professions require that training be of a professional nature.

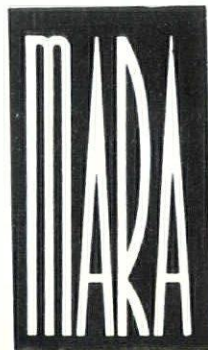
MISSOURI UNIVERSITY

In 1952, the Columbia and Rolla campuses had 8000 students. Last fall the resident enrollment had risen to 18,658 for the Columbia, Rolla and St. Louis divisions and there were 4398 students at Kansas City.

July 1 the Missouri School of Mines and Metallurgy will become the University of Missouri at Rolla, and its Administrator's title will be chancellor instead of dean. Ellis expects that the St. Louis campus will be a four year institution by 1966. It would then be headed by a chancellor.

The Kansas City division already is headed by a chancellor, and eventually a chancellor will be appointed for the main campus at Columbia. The chancellors will be responsible to the president and through him to the Board of Curators.

The St. Louis Campus, Ellis predicts, eventually will have 20,000 to 25,000 students. In Kansas City, the emphasis initially will be on development of graduate and professional education as well as research to help industry.



ACTIVITY AT WASHINGTON UNIVERSITY

Many alumni and others may be interested in the present activity in the School of Architecture at Washington University, St. Louis

Each year about 250 high school students apply for the freshman class, and about 60 are admitted. The average freshman ranks about 13th from the top in high school graduating classes of 100. This year's freshmen (four of whom are women) are from the following places:

Arkansas	3
California	2
Colorado	3
Connecticut	3
Florida	1
Illinois	9
Indiana	2
Iowa	1
Kansas	1
Maine	1
Maryland	2
Massachusetts	1
Missouri	17
New Jersey	1
New York	6
Ohio	2
Oregon	1
Pennsylvania	1
Tennessee	2
Virginia	1
Wisconsin	3
France	1

64

These students will spend two years in the college and then go on to four years of professional work. A number of students attend other colleges before entering architecture. At the present time we have graduates or transfer students from about 30 colleges working toward their Bachelor of Architecture degree.

Two years ago we began a Master's Program in Architecture and Urban Design. In these two years we have had students from the United States and from the following foreign countries: Austria, China, Denmark, Germany, India, Japan, Mexico, Pakistan, Scotland, Turkey.

The major recent change in the professional curriculum has been the requirement that all architectural students do graduate work in a related discipline. We have students working in Engineering, Sociology, History, Political Science, Economics, and a number, of course, in Painting and Sculpture studios. We believe that the significance of art, of engineering, and of city planning to the future of architecture makes this an important requirement.

TYPICAL ARCHITECT-IN-TRAINING EXPERIENCE LOG

Forms shown on both of these pages (four of each) are available for \$1, postpaid, form: M.A.R.A. P.O. Box 355, Jefferson City, Missouri

Jefferson City, Missouri

Architectural Division:
 Hari Van Hoefen, Chairman
 Everett Johns
 R. Paul Buchmueller

Missouri State Board of Registration for
Architects and Professional Engineers,
P.O. Box 184
Jefferson City, Missouri

TYPICAL SUMMARY SHEET

A Board regulation, October 10, 1959 requires a 3-year experience record for all AIT's and a 4-year record for all non-graduates.

**ARCHITECT-IN-TRAINING
EXPERIENCE SUMMARY**

Record of _____
Address _____
AIT Number _____

Summary 19 _____ to 19 _____

BAR CHART SUMMARY BY BUILDING TYPE
each space equals one 40-hour week

Building Type	First Year 19 _____ to 19 _____	Second Year 19 _____ to 19 _____	Third Year 19 _____ to 19 _____
Educational			
Residential			
Commercial			
Churches & Religious			
Industrial			
Hospitals & Medical			
Public, incl. housing			
Recreational			
Community Planning			
Other			

Architectural Division:
Hari Van Hoefen, Chairman
Everett Johns
R. Paul Buchmüller

Missouri State Board of Registration for
Architects and Professional Engineers,
P.O. Box 184
Jefferson City, Missouri

LETTER TO THE EDITOR

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MAY THE SPIRITS OF
"GOD YULE!" TRANSMIT
ALL THEIR GOODS TO
YOU AND TO YOURS
ALL THROUGH 1964

The year now passing began its whooping and hollering in our corner as usual, but mellowed in its tempers, as it melded with the crouching and the broaching hours and days, the sifting, drifting times, in sunshine, shadows, winds and the vicissitudes of the continuity of change.

One morning, Esther, Mrs. Brostrom, with a clutching at the breast, without a moan, slumped to the bathroom floor, crumpling like a suddenly thawed-out rag. All color ran out as with the relaxing of all tensions. After moments I found her heart abeat.

I got her to bed. The doctor called an ambulance and to the hospital we fled. And now at the home, there remains to make the best of things, and regain that which was lost.

One morning, ere a new day had fingered the dawn, there streaked a scratch of bloody red across the wide east. It left a livid scar running before the fates. It dribbled sorrow unto the nations. Before the day's siesta, a bullet had crassly found its mark. And a lady had cried, "Oh! No!"

So, find hope in the days of your years, confidence in your movement, surety in your directions, that you may know that you are fighting a fight that is worthy and not a mere fencing with bubbles.

*Thanks for your Frank Lloyd Wright interview . . .
Taliesin - Ferret out those who sparkle out of
our day and community . . . give them their public
recognition.*

Esther and Ernest Brostrom, Ottilia and Olaf

Kansas City 11, Missouri 1964

RA

ARCHITECTS IN THE NEWS

Wayne W. Enderling of St. Louis recently won the 1964 James Harrison Steedman Fellowship in Architecture. The Washington University award consists of \$3,000 for travel and study of Architecture in foreign countries for twelve months.

The problem for this year's competition was the development of apartments and center for the elderly on an urban site. Five finalists were chosen and a jury selected Mr. Enderling's entry as the winner.

Wayne's first interest in architecture started while he was attending Roosevelt High School. After his graduation in June, 1952, he enrolled in the University College Architectural Program of Washington University while working for the Architectural firm of Jamieson Spearl Hammond & Grolock. He was encouraged by his Design Teacher E. J. Thias of the University College to enroll in the School of Architecture and apply for a tuition scholarship which he was granted. He received his Bachelor of Architecture degree in 1960. He is presently employed in the Architectural office of Schwarz & Van Hoefen.

Wayne recently became a member of M.A.R.A.

Congratulations to the Missouri Architects who were elected to the College of Fellows of the American Institute of Architects, at its annual meeting held in St. Louis, Missouri, at the Chase-Park Plaza Hotel, June 15-19, 1964. This honor is a great achievement in the architectural Profession. Those elected were: Eugene Joseph Mackey of St. Louis, for design; John Thomas Murphy of Kansas City, for service to the Profession and Public Service; John Russell Passonneau of St. Louis, for Education; Eric Wilburn Smith, Jr. of St. Louis, for Design; and Hari Van Hoefen of St. Louis, for Service to the Profession. Ralph Elbert Myers of Kansas City, for Design. These outstanding Architects are all members of M.A.R.A.



GATEWAY ARCH AND VISITOR CENTER

A majestic man-made monument in gleaming steel - destined to be one of the wonders of the modern world - is rising to a height of 630 feet on the riverfront in St. Louis.

It will be known as the Gateway Arch. Commemorating the opening of the West after the Louisiana Purchase, the great steel edifice will be one of the most unique structures ever built. When completed, it will also be our tallest monument, exceeded in height by only 16 existing buildings in the United States.

If it were built in the nation's capital, the great steel Arch would rise 75 feet higher than the Washington Monument. If it were placed in Egypt, it would tower 180 feet over the Great Pyramid of Cheops.

Completion of the steel Arch, which will cost approximately \$12 million, is expected in early 1965. This will coincide with the 1964-1965 celebration of the 200th anniversary of the founding of St. Louis. Because of its sheer size and complex construction problems, the Arch could be built only by using steel.

It was designed by the late Eero Saarinen in the graceful form of an inverted catenary curve to be the dominant feature of the National Park Service's \$30 million Jefferson National Expansion Memorial. A catenary curve is the shape a chain assumes when it hangs freely between two points of support.

As construction progresses, the enormity and complexity of the project becomes more evident every day. Although the engineering principles are not unique, the ordinary problems of construction, fabrication and erection confronted in everyday projects are multiplied and added to by the sheer immensity of the Arch.

For instance, deviation of 1/64 of an inch between the bases might result in the legs of the Arch failing to meet perfectly at the top closure! Also, surveying during the erection of the steel must be so exact that it is done at night when temperatures on the sides of the three walls are equal.

GATEWAY ARCH AND VISITOR CENTER

CONSTRUCTION AND DESIGN FACTS BY THE UNITED STATES

DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

GATEWAY ARCH GEOMETRY

The shape is classical weighted catenary.

Height is 630 feet above the ground (approximately 52 stories).

The span is 630 feet at ground level.

The cross section of each leg is an equilateral triangle with sides 54 feet wide at the ground level diminishing to 17 feet wide at the highest part.

The wall thickness is 3 feet at ground level diminishing to 7 3/4 inches above the 400 foot level.

CONSTRUCTION

The arch foundations contain approximately 13,340 cu. yds. or 25,980 tons of concrete imbedded in rock.

The exterior surfaces of the arch are 1/4" thick stainless steel plates and the interior surfaces are 3/8" thick structural steel plates.

From the base to the 300 foot level, the area between the exterior and interior surfaces is filled with concrete varying in thickness from 3 feet to 1 foot.

From the 300 foot level to the top of the arch the walls consist of 1/4" stainless steel exterior plates and 3/8" structural steel interior plates with structural stiffeners between.

Each leg of the arch will be self supporting during construction.

Under a wind loading of 55 pounds per square foot-equivalent to a wind velocity of 150 m.p.h., the arch will deflect in an east-west direction a maximum of 1.4 feet.

Completion of the arch is expected to be Spring 1965.

ARCH INTERIOR

An observation deck with a capacity of approximately 240 people.

Conveyance systems consisting of (1) an eight car train in each leg of the arch with a capacity of 40 people; (2) a 12-passenger elevator rising to the 372 foot level in each leg of the arch; and (3) stairs in each leg of the arch with 1076 steps to the observation platform.

ARCH MATERIALS

Stainless steel exterior skin, 1/4"	- 2,886 tons
Structural steel interior skin 3/8"	- 2,157 tons
Stiffeners, splices reinforcing, etc.	- 1,408 tons
Concrete filling, 6238 cu. yds.	- 12,127 tons
Interior framing, stairs and train	- 2,300 tons
Total weight of arch	<u>16,878 tons</u>

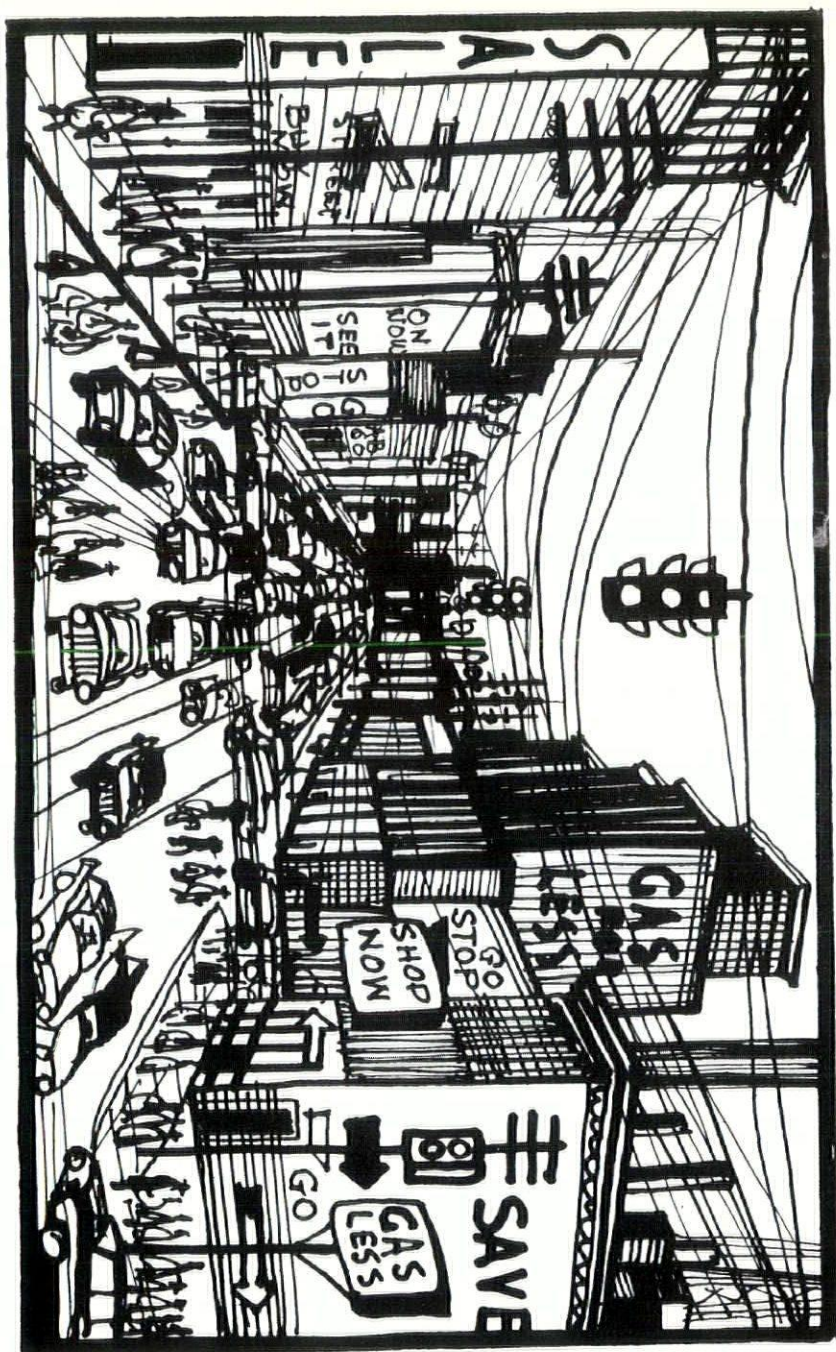
COMPARATIVE BUILDING HEIGHTS

Empire State Building	- 1,248 feet
Eiffel Tower	- 984 feet
Gateway Arch	- 630 feet
Washington Monument	- 555 feet
Bell Telephone Building, St. Louis	- 369 feet
(444 feet including microwave towers)	



AIED Design Medal was awarded to Mr. Hiawatha of Estes, California, for his latest residence design. The jury said we like this plan because it has unity of form, clarity of expression, and laughter-provoking visual experience.

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TO OFFICIALS OF ALL INCORPORATED CITIES IN MISSOURI

In view of the wide interest in providing adequate water supply and other public services in Missouri cities (more particularly, in cities of the fourth class, with respect to waterworks and sewers), the State Board of Registration for Architects and Professional Engineers at its meeting in Jefferson City on February 10, 1964 ordered that the following excerpts from the registration law be published for your use in interviewing persons who may solicit employment by your city for engineering or architectural services.

"Section 327.010. In the enactment of this chapter it is hereby declared to be the intent and purpose of the General Assembly to protect the inhabitants of this state in the enjoyment of life, health, peace and safety, and to protect their property from damage or destruction through dangerous, dishonest, incompetent or unlawful architectural or professional engineering practice, and generally to conserve the public welfare.

Section 327.020. 1. (f) "Unlawful Practice of Architecture": Rendering, or offering to render, any architectural service in this state in violation of any provision of this chapter.

2. (g) "Unlawful Practice of Engineering": Rendering, or offering to render, any engineering service in this state in violation of any provision of this chapter.

Section 327.260. Every contract, written or oral, for architectural or engineering services made by any architect or professional engineer in violation of any provision of this chapter shall be void, and it shall be a complete defense to any action to enforce payment for any such services if the defendant shall al-

lege and prove that the plaintiff was not, at the time such services were rendered, legally authorized to contract for or render architectural or engineering services in this state."

ANY REGISTERED engineer or architect soliciting employment by your city will have in his pocket a card certificate showing his registration and standing on the records of this Board and it would be well for you to ask him to show you his registration card, before proceeding further with the interview.

Any contract with an UNREGISTERED person for engineering or architectural services is void, and no such person can by court action enforce payment for services rendered under any such contract.

The registration law requires all public officials of this State, its counties, cities and other public bodies to enforce it in so far as they may be officially concerned with public works usually designed and planned by engineers or architects.

You are further advised that there is no such thing as FREE engineering or architectural services, and that you should beware when FREE services are offered in the form of preliminary surveys or in any other form.

To be safe and avoid the possibility of having bonds, issued for payment of construction cost of waterworks and other utilities, being held invalid by the courts you should engage the services of professional engineers and architects whom you know to be registered and in good standing on the records of this Board, and then only when the services proposed are offered on an ethical professional basis without any suggestion or offer of FREE services in any form.

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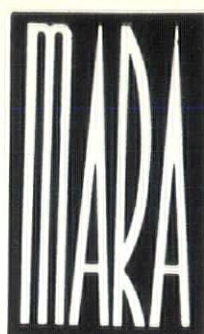
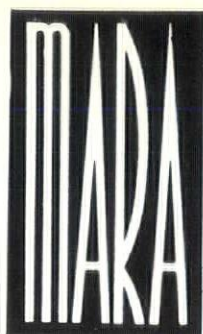
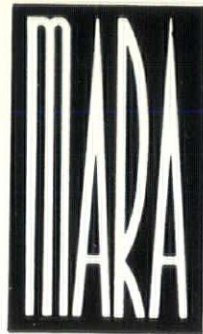
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MEMBERSHIP

An architect is eligible for membership in the Missouri Association of Registered Architects if he is registered in Missouri and may reside in or out of the state of Missouri. A check made out to the MARA should be mailed to Mr. Paul Doll, Executive Director, MARA, 210 Monroe Street, Jefferson City, Missouri. Membership fee is \$10.00 per year.

AFFILIATE MEMBERSHIP — Persons registered as Architects-in-training under the laws of the State of Missouri and in good standing on the records of the State Board of Registration for Architects and Professional Engineers shall be eligible for membership in the Association.

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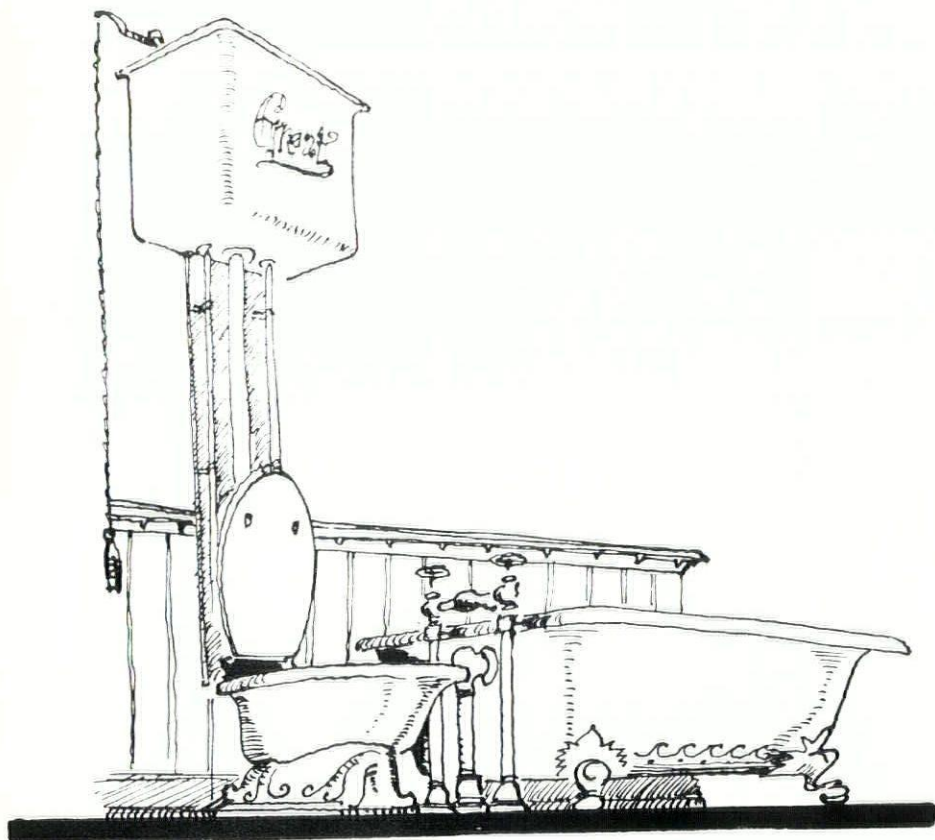
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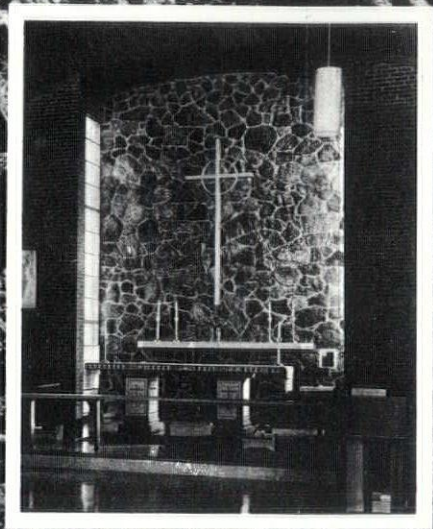
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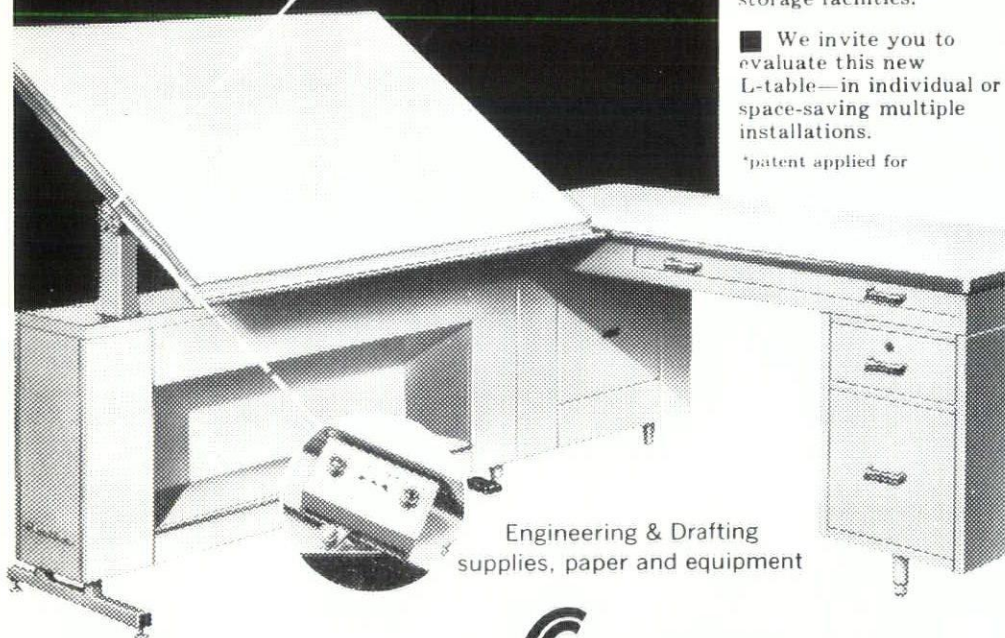
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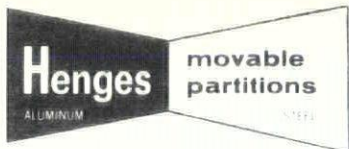


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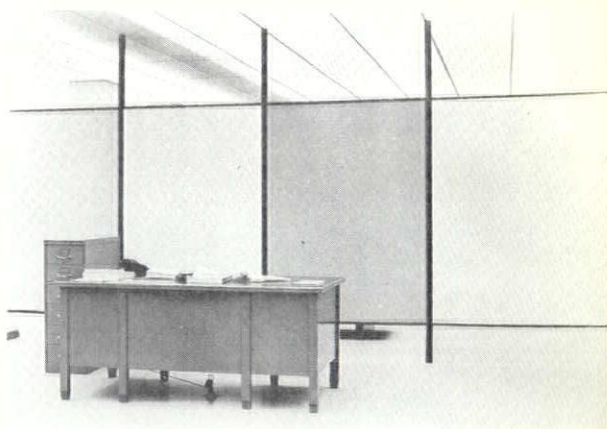
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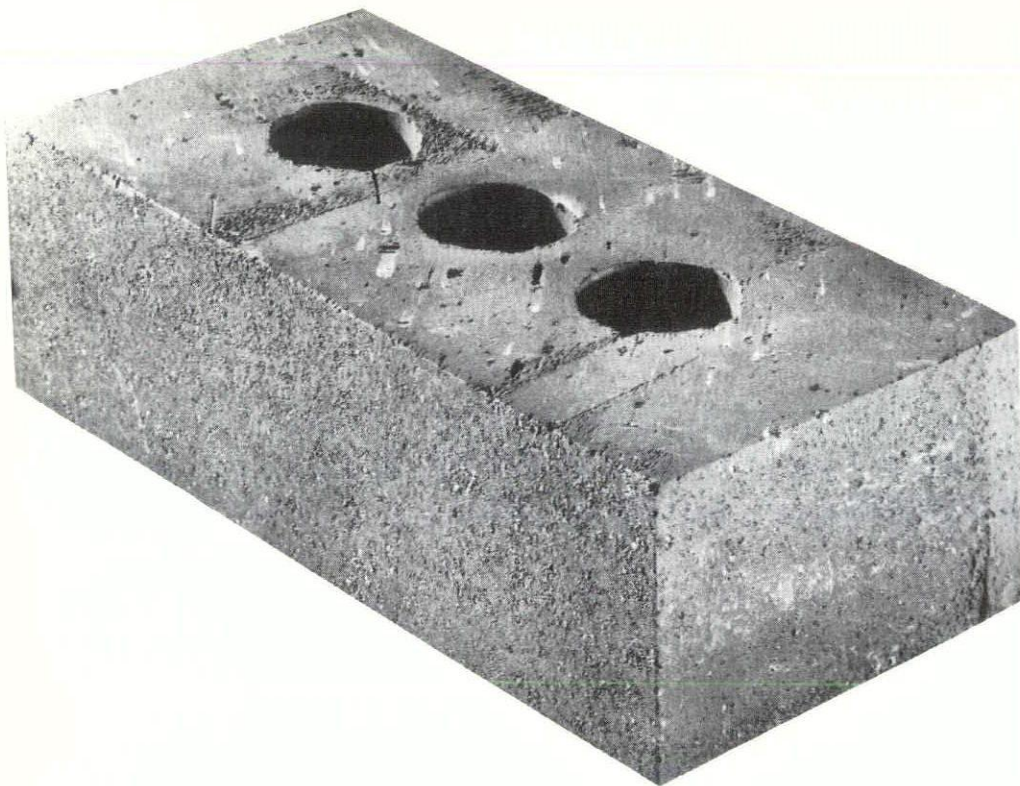
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PROFESSIONAL MEN'S DISABILITY PROGRAM


Within recent months the directors of our Association approved for our members a program of Accident and Sickness insurance underwritten by the Commercial Insurance Company of Newark, New Jersey, one of the leading companies in the field of providing liberal disability coverage for members of professional associations.

This action was taken to enable the members of the Missouri Association of Registered Architects to obtain this broad coverage insurance at reduced rates, made possible through the mass purchasing power of the membership.

The program provides plans of benefits from \$50.00 Weekly up to as much as \$250.00 Weekly, with benefits for sickness beginning after four weeks of disability and payable for as long as five years, and accident benefits begin with the first day and payable as long as disabled - even for lifetime.

This program also provides optional benefits for hospital confinement from the first day up to ninety days for each confinement, and payment for surgery based on a schedule from \$7.50 up to \$225.00 depending on the nature of the surgical procedure.

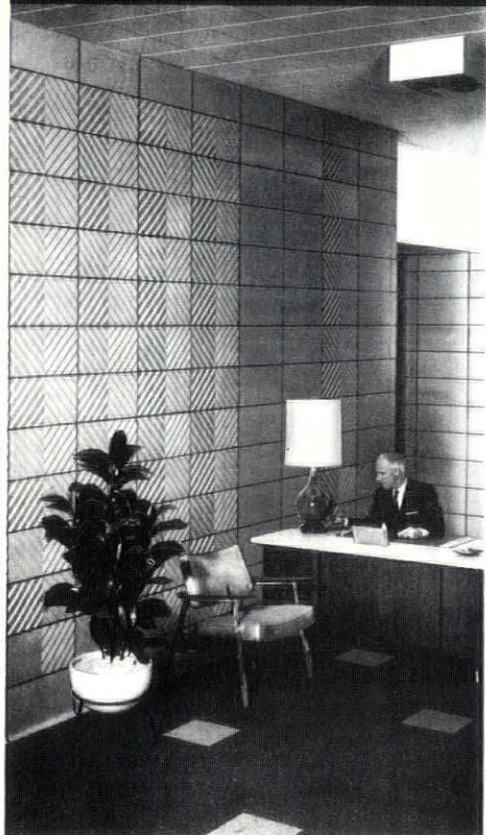
Complete details of the many features of this coverage are available through the two agencies which administer this program. They are, Egbert-Carroll-Schroeder Agency, Inc., 111 N. 4th Street, St. Louis, Missouri, and Altman-Singleton & Co., 114 West Tenth Street, Kansas City, Missouri. The enrollment period of sixty days is now underway. Policies can be issued to those with physical impairments only if a sufficient number of our members apply during this special enrollment period.





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The failure of an architect, engineer, surveyor, or general contractor to procure a license as required by statute may constitute a misdemeanor subjecting him to criminal prosecution, and render the contracts he has entered into for the performance of professional services illegal and void.

The license laws of most states prescribe penalties for a violation of their provisions, usually terming such violation a misdemeanor punishable by fine or imprisonment or both. These sections have, upon occasion, been made the basis of criminal prosecution.

An evasion of the statutes impresses the stamp of illegality on contracts entered into for the performance of professional services by one not licensed. If the contract is illegal, it will receive no consideration by the courts in the event of its breach, and this will often mean that the unlicensed individual will be unable to collect compensation for his services if the party with whom he contracts refuses payment.

In deciding whether failure to procure a license renders a contract for the performance of professional services illegal, the determining factor is the purpose of the legislature in enacting the statute - whether as a revenue measure or as a police regulation. If it is intended as a revenue measure, the contract is enforceable notwithstanding a violation of the statute. If it is a police regulation, as is almost universally the case with the state enactments, the contract itself is void and unenforceable . . . "Architectural and Engineering Law," by Bernard Thomson.



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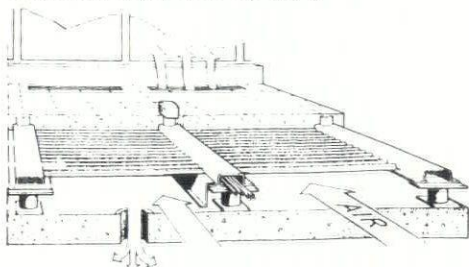
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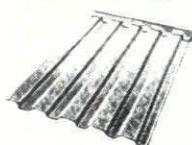
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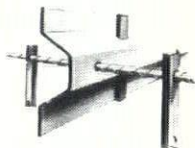
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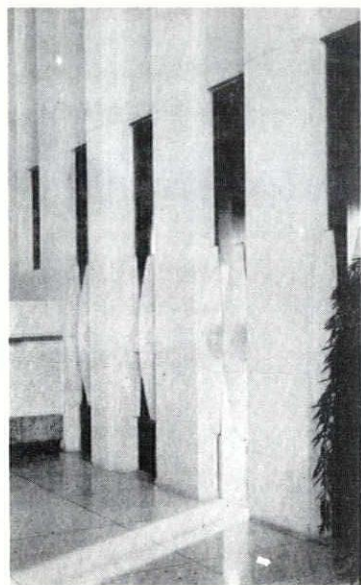
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PACKAGE BUILDING versus ARCHITECTURE

REPRINTED FROM MIDWEST ARCHITECT SKYLINES

The natural enemy of architecture is package building, whether by carpenter-builders, developers with ready-made plans to warm over, or real estate development financiers controlling all phases of building.

Package builders always have built more than architects, and they always have been the bane of those who believe in creativity.

That is because the package builders are motivated by expediency. They care nothing about the great architecture in history and they care nothing about how their buildings will look in the future. Their task is simple: to construct something that will rent or sell. As a result, one would be hard-pressed to find somewhere in the vast volume of industrial and domestic package buildings a structure truly outstanding.

The package builders merely build, reap their profits, and move on like the fog at night. By combining the many phases of a project under their sole control, package builders can make unlisted profits on all the phases---land, planning, mechanical work, special consultants, building, and supervision. He is responsible to no one.



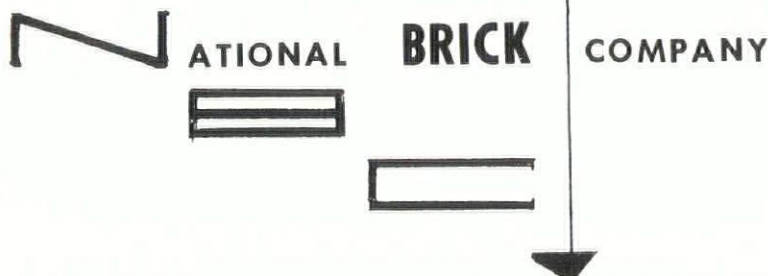
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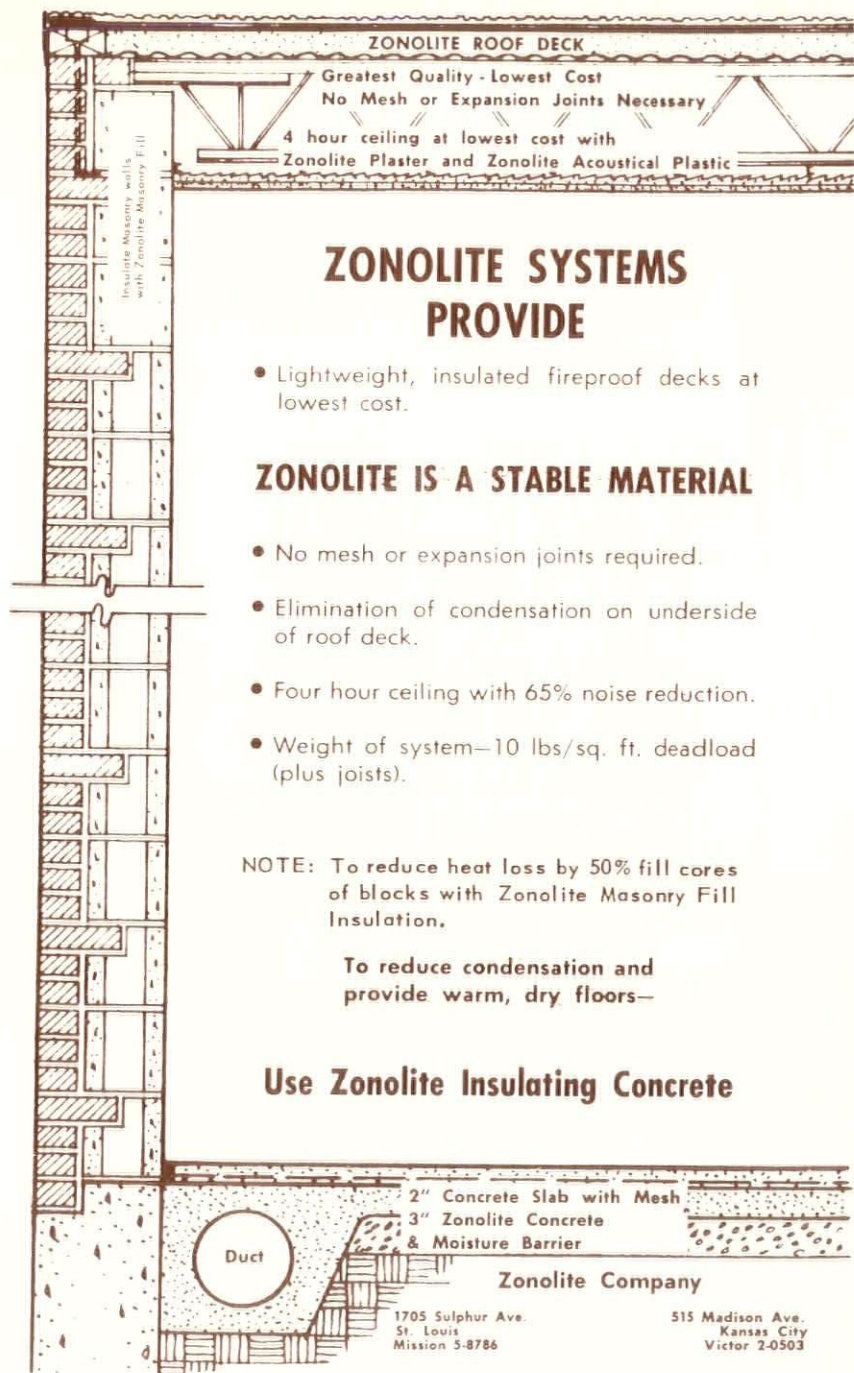
MARA OFFICERS AND BOARD OF DIRECTORS MEETINGS:

FRIDAY, JULY 17, 1964, WESTGATE LANES, JEFFERSON CITY

FRIDAY, SEPTEMBER 18, 1964, LEEWARD HOUSE, TAN-TAR-A,
OSAGE BEACH, LAKE OF THE OZARKS

The school that has good teachers needs little more, and one without good teachers will be bettered but little by the addition of anything more
— John Locke

Examinations are formidable, even to the best prepared, for the greatest fool may ask more than the wise man can answer.
— Colton.



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- No mesh or expansion joints required.
- Elimination of condensation on underside of roof deck.
- Four hour ceiling with 65% noise reduction.
- Weight of system—10 lbs/sq. ft. deadload (plus joists).

NOTE: To reduce heat loss by 50% fill cores of blocks with Zonolite Masonry Fill Insulation.

To reduce condensation and provide warm, dry floors—

Use Zonolite Insulating Concrete

2" Concrete Slab with Mesh
3" Zonolite Concrete
& Moisture Barrier

Zonolite Company

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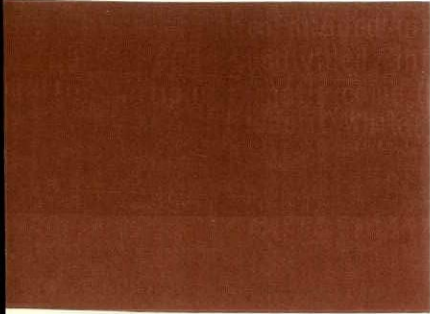

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Kansas City
Victor 2-0503



While "Beauty" is proclaimed timeless, relegated to an occasional pedestal, and there honorably marooned, civilization is liable to turn into blight.

-- Richard Neutra

Regardless how the details of the unsolved problem are hid or slighted, the result is a poor design - architecture must work. - E. J. Thias



To hold an adult audience, you must be prepared to go straight to fundamentals. You must present ideas that make a difference to you. This is the key to good teaching. When adult education reaches its full development, it will improve the teaching of all teachers.

- Alvin Johnson

Colonialism in architecture is, first of all, the result of homesickness; second, of national pride. The colonist, surrounded with the sights and sounds and smells of a strange country dreams of the reassuring, accustomed environment of his youth, and when he builds, sets out to build, in nine cases out of ten, a building as much like those which he remembers as his skill and his means allow. It is only a sophisticated colonizer of a later and more analytic age who realizes the inexorable needs of a new climate or of new materials, and creates new forms to fit them. - Talbot Hamlin

There are persons who, with all good will, can never be teachers. ... They do not readily think in terms of the other person. They should not, then be teachers. - George Herbert Palmer

The school that has good teachers needs little more, and one without good teachers will be bettered but little by the addition of anything more
- - John Locke

The successful teacher loves what he teaches and whom he teaches.
- - Wm. Lyon Phelps

The man who can make hard things easy is the educator. - Emerson

Look with scorn and suspicion upon all efforts to create the beautiful without an underlying sense and knowledge of what constitutes good building, good structure. - Frank Lloyd Wright

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